• Specifications for V321/V421/V461

MODEL	V321	V421	V461
LCD MODULE			
Viewable Size (Diagonal)	32"	42"	46"
Panel Technology	SPVA	S-IPS	SPVA
Native Resolution	1366 x 768	1920 x 1080	
Pixel Pitch	0.51mm	0.485mm	0.53mm
Brightness (Typical)	450 cd/m²	500 cd/m²	450 cd/m²
Contrast Ratio (Typical)	3000:1	1300:1	3000:1
Active Screen Area (W x H)	27.5 x 15.4 in. / 697.6 x 392.3mm	36.6 x 20.6 in. / 930.2 x 523.3mm	40.1 x 22.6 in. / 1018.5 x 572.9mm
CONNECTIVITY			
Input Terminals			
RGB1 (Digital)	DVI-D		
RGB2 (Analog)	15-pin D-sub		
RGB3 (Analog)	5 BNC (RGBHV)		
Video 1	Composite(Shared RCA and BNC)		
Video 2	S-Video		
Video 3	HDMI		
Component Video 1 (DVD/HD)	Component BNC		
Audio	Audio 1 (MiniJack), Audio 2 and 3 Stereo (RCA), HDMI/Internal Speaker: None		
Output Terminals			
RGB	Yes		
Video	Yes		
Audio	Yes		
Audio Amplifier	15W Stereo		
External Control	RS-232 in/out for multiple monitor control, Ethernet, IR, DDC/CI		
FEATURES			
Additional Features	Standard bezel, sealed panel design, Ethernet Control and Communication, TileMatrix (5x5), TileComp, programmable lookup tables, Plug and Play (DDC/CI, DDC2B), PIP/POP/side-by side picture, 6-axis color adjustment, 10-bit gamma, multi-level programmable zoom, scheduler (w/ RTC), sharpness/softness, off-timer (countdown), screen saver, vacation switch, AutoBright (signal input), Windows Vista-certified, portrait-capable, touch- and protective screen-ready, color temperature adjustment (2600-10,000K)		
POWER			
Power Requirements	1.4 A@100-120V, 0.6 A@220-240V	2.1 A@100-120V, 0.85 A@220-240V	2.4 A@100-120V 1.0 A@220-240V
Power Consumption (Typical)	75W	160W	185W
Power Consumption (Standby Mode)	<1W	<1W	<1W
PHYSICAL SPECIFICATIONS			
Bezel Width (L/R, T/B)	1.7 in. / 1.6 in. , 44.2mm / 40.5mm	1.7 in. / 1.7 in. , 44.2mm / 43.3mm	2 in. / 1.8 in., 50.4mm / 45mm
Dimensions (without stand; WxHxD)	31.1 x 18.8 x 5.2 in. / 789 x 476.3 x 133mm	40.3 x 24.2 x 5.2 in. / 1022.9 x 613.5 x 133mm	44.2 x 26.2 x 5.1 in. / 1121.5 x 664.7 x 129.8mm
Packaging Dimensions (WxHxD)	36.4 x 23.8 x 11 in. / 925 x 604 x 280mm	45 x 27.7 x 9.3 in. / 1142 x 703 x 237mm	50 x 30.3 x 10.8 in. / 1270 x 769 x 275mm
Net Weight (without stand)	31.5 lbs. / 14.3 kg	45.2 lbs. / 20.5 kg	52.9 lbs. / 24 kg
Gross Weight (with box)	43.2 lbs. / 19.6 kg	58.2 lbs. / 26.4 kg	67.9 lbs. / 30.8 kg
VESA Hole Configuration	200 x 200mm (4 hole)		
ENVIRONMENTAL CONDITIONS			
Operating Temperature	5-40°C / 41-104°F		
Operating Humidity	20-80%		
ACCESSORIES			
Included	Power cord, 15-pin D-sub cable, setup sheet, wireless remote control, batteries, Main switch cover, CD-ROM (user manual), Rear mount speakers		
Optional	Stand (ST-3215), speakers (SP-3215)	Stand (ST-4020), speakers (SP-P4046)	Stand (ST-4020), speakers (SP-4615)

• Media Player Specifications

Items			Specifications
External interface	Video output	Resolution	1920 x 1080@ 60Hz
			1360 x 768 @ 60Hz(default settings)
			1280 x 1024@ 60Hz
			1024 x 768 @ 60Hz
			1680 x 1050@ 60Hz
		Interface	DVI-D
	Audio output		Line out L/R x 1, 3.5ø stereo mini jack
	USB memory interface		USB memory connector
	Memory card interface		Memory card (SD card) connector
	Video input		Mini DIN 7P Connector S Video: NTSC/PAL *Video signals with copy protection, such as commercially available movie DVDs, cannot be displayed due to copyright protection.
	Audio input		Line in L/R x 1, 3.5ø stereo mini-jack
	Remote control sensor		Infrared
	Input for wireless remote control extension cable		2.5ø mini-jack
	Controlled output (maintenance terminal)		D-SUB 9pin
	LAN terminal		RJ-45 10/100BASE-T
Clock function			Backup conducted with internal batteries (primary batteries)
Memory card (enclosed)			Capacity 2 Gbytes (format: FAT16) Media Player System file (pre-installed)
External dimensions			247.6(W) x 143.6(D) x 33.7(H)
Power source		AC adaptor	Output +12 V AC100-240V, 50/60Hz
Power consumption		Normal	15W
		During standby	1W or less
Applicable standards			Safety: Electrical Appliance and Material Safety Law (AC adapter, power cord), Electro-Magnetic Interference: VCCI-B
Packaging condition (weight/dimensions)			Approx. 2.3 kg/335.0 mm x 131.0 mm x 252.0 mm
Weight			0.9kg
Use Conditions		Temperature	0-40°C
		Humidity	10%-80% (Make sure there is no condensation.)
Storage Conditions		Temperature	-10°C to 60°C
		Humidity	10%-90% (Make sure there is no condensation.)

* Protected video such as commercially available cinema DVDs may not be displayed due to copyright protection.

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July 2010

WLCD-1008-131D

Large-Screen LCD

Empowered by Innovation NEC

V series

32”, 42” and 46” entry-grade LCD displays ideal for digital signage applications

Maximize your messaging without having to maximize your budget.

The NEC V Series,featuring the 32” V321, 42” V421 and 46”V461, provides a cost-conscious solution for your digital signage applications. Their highperformance panel and abundance of advanced technologies that promote extended use, along with an adaptable mechanical design, make these displays ideal for a wide variety of environments. Drive foot traffic and sales in retail stores. Whet appetites in restaurants. Build brand awareness and turn heads during presentations in corporate lobbies and conference rooms. With the V Series, you can create dynamic digital signage solutions in virtually any space and achieve your business goals.

- **Commercial-grade design** lead to the displays’ extended use for various applications
- **Public-display-grade panel** protects against permanent image retention
- **Comprehensive input panel,** including HDMI, 5 BNC (RGBH/V, DVD/HD, or composite video), DVI-D, and 15-pin D-sub,connects you to the latest peripherals
- **High brightness and contrast ratio** help create eye-catching images and crisp, easy-to-read text
- **Protective-glass and touch-panel ready design** provide opportunities for module protection and interactivity
- **TileMatrix™** allows you to create video walls (up to 25 displays in a 5x5 matrix)
- **TileComp™** works in tandem with TileMatrix to compensate for the bezel width and create a more seamless video wall
- **Landscape and portrait orientations** allow for flexible content placement, maximizing audience awareness
- **Extensive control, diagnostic and communication** provide the highest level of remote display management. These include:
  - **RS-232** enables multi-display control and daisy chain, allowing for individual and group-addressable control, and simple, effective setup and monitoring of the display
  - **Ethernet connectivity** adds the same RS-232 control plus automatic email notification for diagnostic purposes
  - **NaViSet™ software** offers an intuitive graphical interface, allowing for easy adjustment of display settings via mouse and keyboard. NaViSet Administrator provides all the advanced control to remotely located IT professionals.
  - **DDC/CI standard** allows for PC control of the display based on the VESA command set
- **Scheduler with round-the-clock feature** allows for 7-day scheduling of content and powering of the display
- **Extensive environment-friendly components** contribute to significant energy savings and a lower total cost of ownership
- **Text ticker** enables you to dedicate a portion of the screen to applications such as emergency warnings or news updates via a separate input. While your primary content is displayed via one input and fills the majority of the screen, your secondary ticker information can be displayed on the lower/remaining portion of the screen via a second input.
- **6-axis color control** allows for precise and simplified color, color temperature and saturation adjustment
- **ENERGY STAR 5.0** is proudly offered for all V Series displays, which meet strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy, helping you save money and reduce greenhouse gas emissions

V series

Key Features

Full connectivity with high cost performance

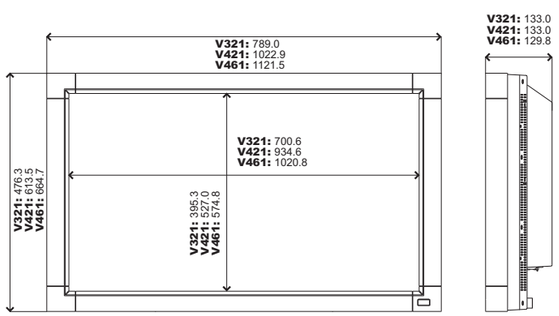
Realistic displays of the various video sources required for public use.

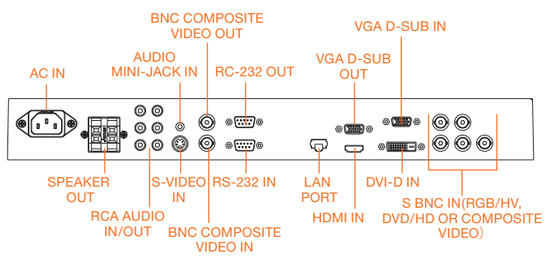
• **Continuing the development concepts of the higher-end models**
MultiSync® V series deliver a high cost performance both through its use of an LCD panel that minimizes uneven brightness and color and because of the relentless focus on brightness and contrast and other basic performance criteria, such as the response speed.

• **Furnished with an HDMI terminal**
This model comes equipped with an HDMI terminal and standards for digital video and audio input/output so that digital signals can be displayed directly. There is no need to convert digital signals to analog, so high quality video digital sound can be enjoyed, and video, audio, and control signals can be transmitted and received through a single cable.

Digital signage made easy

In addition to remote control by RS-232C, the V series are also compatible with LAN control by connection through a network. These remote display management functions make easy to implement various digital signage systems. The combination with Media Player MP-01 also helps to realize high cost performance digital signage systems such as retail signage, reception and lobby information.





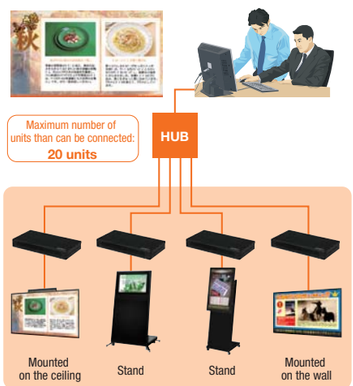
Media Player for Digital Signage MP-01

Easily and smoothly display video, still pictures, and superimposed text, as well as external sources in full HD.

Now with the NEC MP-01 it is possible to easily produce programs for digital signage applications to inform and educate with a couple of clicks of your computer mouse. Scheduling software is included with the MP-01 allowing full control of your content on the system straight from the box. Up to 20 players can be networked and controlled from one PC, allowing your signage system to grow with you.

• **Flexibly arrange the layout and schedule according to the respective requirements**
Choose the optimum layout from 36 preset options combining video, still pictures, superimposed text and external sources including audio using the attached authoring software (in total 100 options by adding the edited layouts as well). With the scheduling function, it is possible to set the start and end time for programs to a certain date and time, as well as daily programs.

• **Produced programs can be distributed via LAN**
You can produce programs (for up to 20 units) with the attached authoring software using a PC for distribution to Media Players via LAN. On the Media Player, programs will be saved on the SD memory card and displayed on the display panel according to a preset schedule.



• **Apply different kinds of formatted content**
Various kinds of formats of still pictures, movies and audio are supported.

Still picture (Max. resolution: 1920 x 1080)	BMP, JPG, PNG
Movie	MPEG1, MPEG2, Windows Media Video9
Audio	MP3

* PowerPoint® can be used through conversion to still pictures using the attached conversion software. However, animation and movies cannot be converted.
* The maximum capacity of program data is 0.45 times the capacity of the SD memory card for LAN distribution (0.9 GB for 2 GB). (The remaining capacity will be used for receiving the distributed signals). The capacity will be 0.9 times the capacity of the SD memory card if USB memory is used (1.8 GB for 2 GB). An SD card (commercially available) of up to 8 GB can be used.

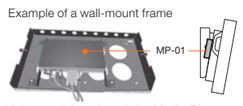
• **Capable of displaying video images from external sources**
Video images and sounds can be displayed together with still pictures and/or superimposed text by connecting external video to the S-terminal input connector and the audio input connector.

* Protected video such as commercially available cinema DVDs may not be displayed due to copyright protection.

• **Transfer data easily from USB memory**
Even if the Media Player cannot connect to the LAN network, programs produced on a PC can be saved in USB memory and copied to the Media Player.

• **Space-saving design**
The Media Player can be attached to the rear panel of an LCD display* or installed on the wall-mounting frame (optional), so that it is possible to minimize installation time and to save space for transportation.

Example of a wall-mount frame



* It is possible to install the Media Player on the rear panel of our NEC Large Screen LCD Displays with the attached fittings.